

 $\vec{p}+p$ @ 510 GeV

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Time Meeting

Feb. 21, 2017

Detector Readiness

- Cosmics data
 - Polarity switch on Feb. 16
 - Magnet cooling system not at full capacity (gear drive replacement)
- First collisions Feb. 20, 9 am
 - Global timing for BBC for triggering
 - First timing scan for calorimeters
 - Gain scan for VPD
 - Timing for FPS/FPOST
- Next collisions 4~6 hours (today)
 - MTD timing
 - Gain calibration (matching) for FPS/FPOST
 - Initial gain calibration for ETOW
 - Initial FMS calibration for trigger setup

- Roman pot triggers
- RHICf integration
- Finalize trigger STRAWMAN for production
 - Start with BHT3 for W/Z bosons

Trigger Rates

o 12.5 weeks, delivered 48 pb⁻¹ per week, 85 DAQ hours per week

TPC triggers

	trigger	rate (Hz)	goal	pre- scale	physics
Spin	ВНТ3	40	400pb ⁻¹	Х	W/Z
	EHT1	20	400pb ⁻¹	Х	W/Z
	JP2	70	400pb ⁻¹	Х	Collins/IFF
	JP1*VPDMB30	70	250M	У	Collins/IFF
	JP0*VPDMB30	100	400M	У	Collins/IFF
	VPDMB30	400	1.5B	У	Collins/IFF
	total	700			
MTD	di-muon	260*	400pb ⁻¹		Υ
Heavy	BHT1*VPD100	180	300pb ⁻¹	Х	D,J/Ψ,Y
Flavor	BHT2*BBCMB	120	300pb ⁻¹	Х	D,J/Ψ,Y
	total	300*			
CEP (RP)	CPT	300*	1.2B	~1	CEP/DPE
Excl. J/Ψ	J/psi HT-TP	40	400pb ⁻¹	Х	J/Ψ
Total		1600			

Fast FMS triggers will be separate (>1 kHz)